Message

From: Liang, Yan Ling [Liang.YanLing@epa.gov]

Sent: 12/8/2020 10:37:02 PM

To: Nguyen, Thuy [Nguyen.Thuy@epa.gov]
CC: Qian, Yaorong [qian.yaorong@epa.gov]
Subject: RE: Anvil container rinsing results summary.

Still looking at the recovery data, hope to let you know tmr....

From: Nguyen, Thuy <Nguyen.Thuy@epa.gov>Sent: Tuesday, December 8, 2020 5:28 PM
To: Liang, Yan Ling <Liang.YanLing@epa.gov>Cc: Qian, Yaorong <qian.yaorong@epa.gov>

Subject: RE: Anvil container rinsing results summary.

Thanks Yan

I noted that amounts in the rinsate of the interior are lower than the exterior's. Could this be explained as some of the PFAS used in the coating of the inside have already leached into the samples?

Thanks again

Thuy

P.S. Any good news on the samples?

From: Liang, Yan Ling < Liang YanLing@epa.gov>
Sent: Tuesday, December 8, 2020 5:06 PM
To: Nguyen, Thuy < Nguyen. Thuy@epa.gov>
Cc: Qian, Yaorong < qian.yaorong@epa.gov>

Subject: RE: Anvil container rinsing results summary.

Hi Thuy,

Just to reconfirm the results with the rerun:

Here are the new numbers for the most prominent PFAS compounds found:

PFAS compounds PFBA were found in the 300-500 ng levels, and PFPeA, PFHpA and PFHxA were found in 30-75 ng levels in the 50 mL methanol leachate. The numbers are not exact as many of the concentrations found were well above our highest standard, but they are for certain present in the rinsates. The results for the rest of the PFAS compounds are mostly the same as before (detailed info below).

Thanks,

Yan

Red = found in high amounts, Orange = found in moderate-high amounts, Green = found in moderate amounts, Blue = found in small amounts, Black = none found.

- PFPeA was leached from both the interior (\sim 30 ng) and exterior (\sim 100 ng) in significant quantities.
- PFPeS was not found in interior or exterior leaching above background levels.
- PFBA was leached from both the interior (~80 ng) and exterior (~200 ng) in significant quantities.
- PFTeDA was found in small amount in the exterior leaching sample, none found in interior leaching sample.
- PFTrDA was found in small amount in the exterior leaching sample, none found in interior leaching sample.

- PFDoA was found in moderate amount in the exterior leaching sample, none found in interior leaching sample.
- PFUdA was found in moderate amount in the exterior leaching sample, none found in interior leaching sample.
- PFDA was found in moderate amount in the exterior leaching sample, small amount found in interior leaching sample.
- PFDS was not found in interior or exterior leaching above background levels.
- PFOS was not found in interior or exterior leaching above background levels.
- PFNA was found in moderate-high amount in the exterior leaching sample, moderate amount found in interior leaching sample.
- PFNS was not found in interior or exterior leaching above background levels.
- PFOA was found in moderate-high amount in the exterior leaching sample, moderate amount found in interior leaching sample.
- PFHpS was not found in interior or exterior leaching above background levels.
- PFHxS was not found in interior or exterior leaching above background levels.
- PFHpA was leached from both the interior (~7 ng) and exterior (~22 ng) in significant quantities.
- PFHxA was leached from both the interior (~50 ng) and exterior (~17 ng) in significant quantities.
- PFBS was not found in interior or exterior leaching above background levels.
- PFDoS was not found in interior or exterior leaching above background levels.
- PFHxDA was found in small amount in the exterior leaching sample, none found in interior leaching sample.
- PFODA was not found in interior or exterior leaching above background levels.

From: Liang, Yan Ling

Sent: Wednesday, December 2, 2020 11:00 AM
To: Nguyen, Thuy < Nguyen. Thuy@epa.gov >
Cc: Qian, Yaorong < qian.yaorong@epa.gov >
Subject: Anvil container rinsing results summary.

Hi Thuy.

Here is a summary of the container rinsing results:

Several PFAS compounds were found to be amenable to leaching with methanol on the interior and exterior of the Anvil 10+10 container. PFAS compounds PFPeA and PFBA were found in the 30-200 ng levels and PFHpA and PFHxA were found in 7-50 ng levels in the 50 mL methanol leachate.

More details are provided below.

Method: the container was leached for PFAS using methanol after emptying and washing of the container with laboratory detergent and rinsing with large amounts of water. Leaching was performed with 50 mL of methanol.

- PFPeA was leached from both the interior (~30 ng) and exterior (~100 ng) in significant quantities.
- PFPeS was not found in interior or exterior leaching above background levels.
- PFBA was leached from both the interior (~80 ng) and exterior (~200 ng) in significant quantities.
- PFTeDA was not found in interior or exterior leaching above background levels.
- PFTrDA was found in small amount in the exterior leaching sample, none found in interior leaching sample.

- PFDoA was found in moderate amount in the exterior leaching sample, none found in interior leaching sample.
- PFUdA was found in moderate amount in the exterior leaching sample, none found in interior leaching sample.
- PFDA was found in moderate amount in the exterior leaching sample, small amount found in interior leaching sample.
- PFDS was not found in interior or exterior leaching above background levels.
- PFOS was not found in interior or exterior leaching above background levels.
- PFNA was found in moderate-high amount in the exterior leaching sample, moderate amount found in interior leaching sample.
- PFNS was not found in interior or exterior leaching above background levels.
- PFOA was found in moderate-high amount in the exterior leaching sample, moderate amount found in interior leaching sample.
- PFHpS was not found in interior or exterior leaching above background levels.
- PFHxS was not found in interior or exterior leaching above background levels.
- PFHpA was leached from both the interior (~7 ng) and exterior (~22 ng) in significant quantities.
- PFHxA was leached from both the interior (~50 ng) and exterior (~17 ng) in significant quantities.
- PFBS was not found in interior or exterior leaching above background levels.
- PFDoS was not found in interior or exterior leaching above background levels.
- PFHxDA was found in small amount in the exterior leaching sample, none found in interior leaching sample.
- PFODA was not found in interior or exterior leaching above background levels.